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ABSTRACT

Sci-Math is an interdisciplinary curriculum intended to help students develop the math skills needed for science, especially dimensional analysis, ratio, and the concept of proportion. Sci-Math is divided into two modules with each module having a student and teacher's guide. This module is a pre-algebra module dealing with the arithmetic and logic of proportions while module two is an algebra module that examines the symbolic equations and graphing of proportions. Both modules can be integrated into a one-year course in physical science or used selectively in a chemistry course with students of poor math skills. The student guide for this module contains five concepts: (1) one-step rate problems; (2) method of units analysis; (3) ratios; (4) relationships; and (5) problem solving. Each concept is defined and sample problems are given along with many problem sets. Answers to selected problems are included at the end of the guide. Each concept has several activities and most have experiments. (ML)

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